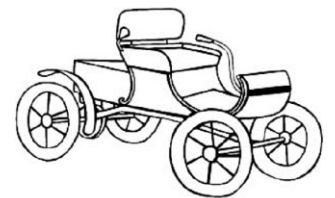
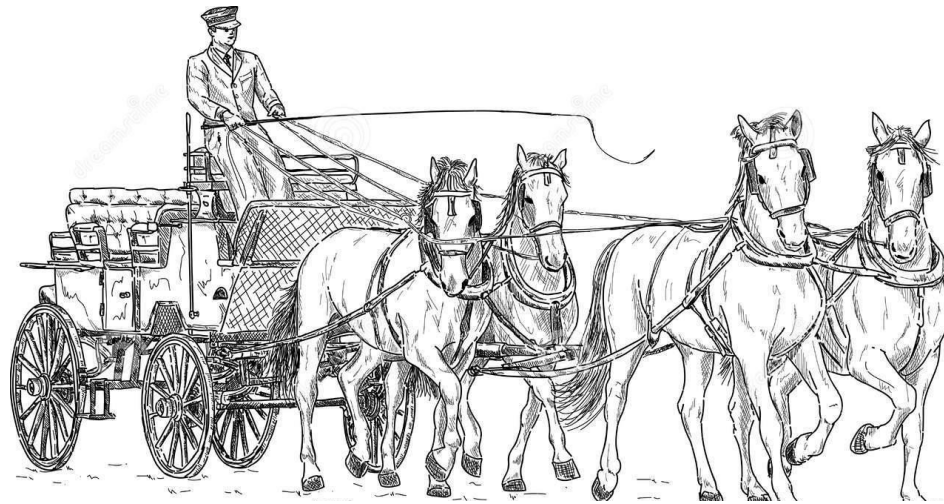


Dr Sławomir Heller

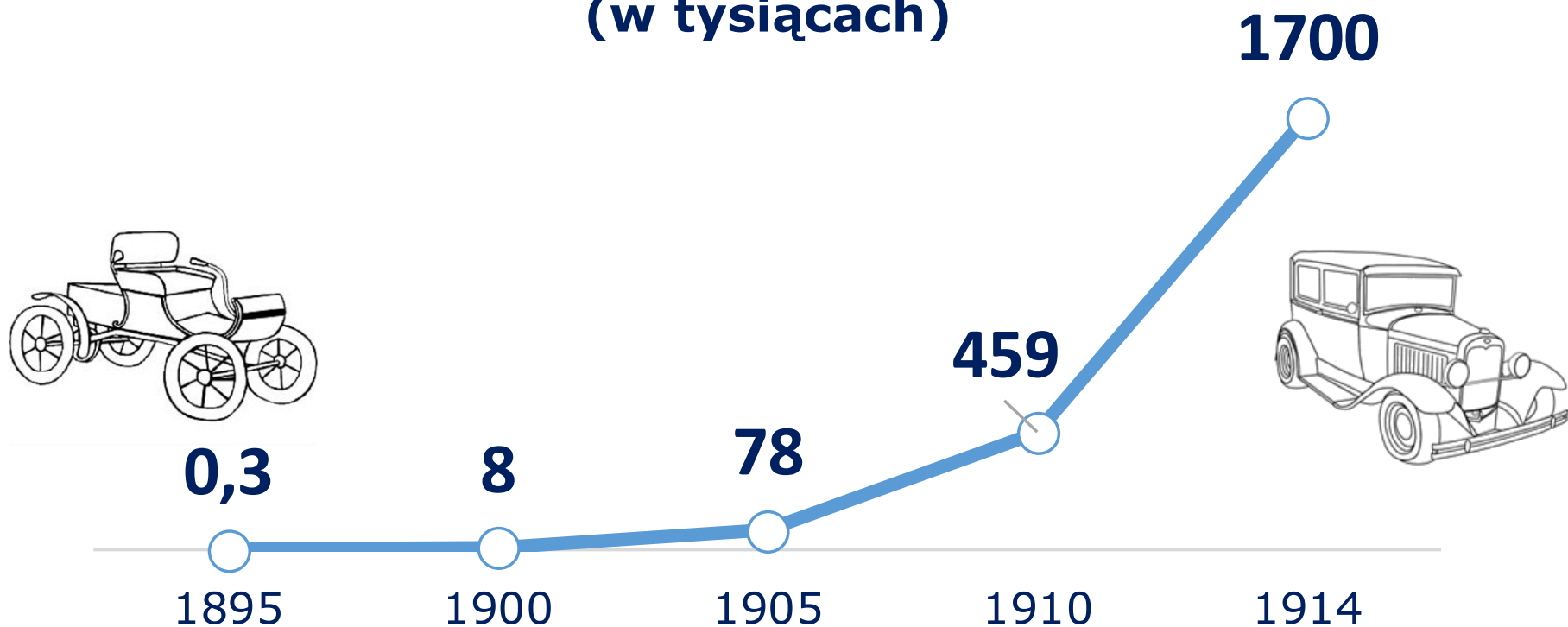
HELLER Ingenieurgesellschaft mbH, Niemcy

PIARC a wyzwania w zarządzaniu infrastrukturą drogową

Wyzwania przełomu XIX i XX wieku



Samochody w USA na przełomie 19 i 20 wieku (w tysiącach)



Wyzwania przełomu XIX i XX wieku



Paryż, 1909 rok

PIARC jako organizacja światowa

- Członkowie ze 140 państw
- Narodowe komitety w 22 państwach
- Podręczniki i zalecenia
- ***Road Safety Manual* w rezolucji ONZ: A/70/L.44**

Światowe kongresy drogowe

**Kick off meeting
w Paryżu
marzec 2016**

2015



Seul

Korea Południowa

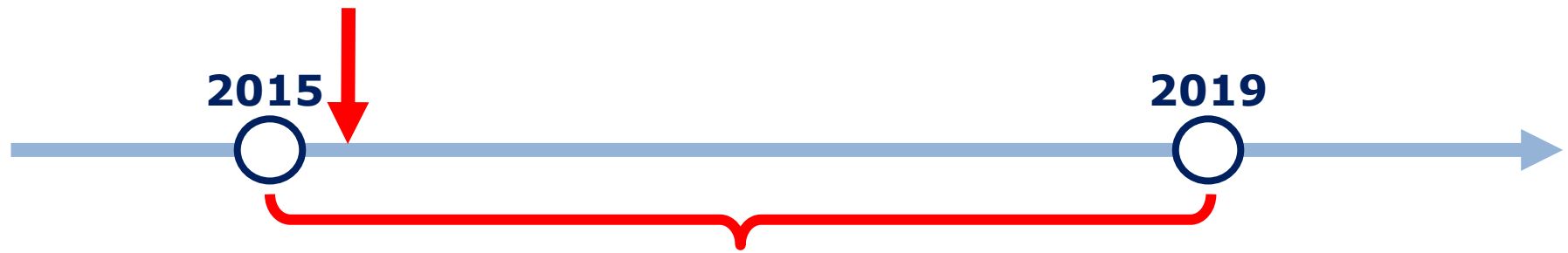
2019



Abu Dhabi

Zjednoczone Emiraty Arabskie

Aktualna kadencja



Organizacja PIARC

- Council
- Executive Committee
- Commissions (*Finance, Communications, Strategic Planning*)
- General Secretariat
- National Committees
- **Technical Committees**

Technical Committees

A Management and Finance	B Access and Mobility	C Safety	D Infrastructure	E Climate Change, Environment and Disasters
A.1 Performance of Transport Administrations	B.1 Road Network Operations/ITS	C.1 National Road Safety Policies and Programs	D.1 Asset Management	E.1 Adaptation Strategies / Resiliency
A.2 Road Transport System Economics and Social Development	B.2 Winter Service	C.2 Design and Operation of Safer Road Infrastructure	D.2 Pavements	E.2 Environment Considerations in Road Projects and Operations
A.3 Risk Management	B.3 Sustainable Multimodality in Urban Areas		D.3 Bridges	E.3 Disaster Management
	B.4 Freight		D.4 Rural Roads and Earthworks	

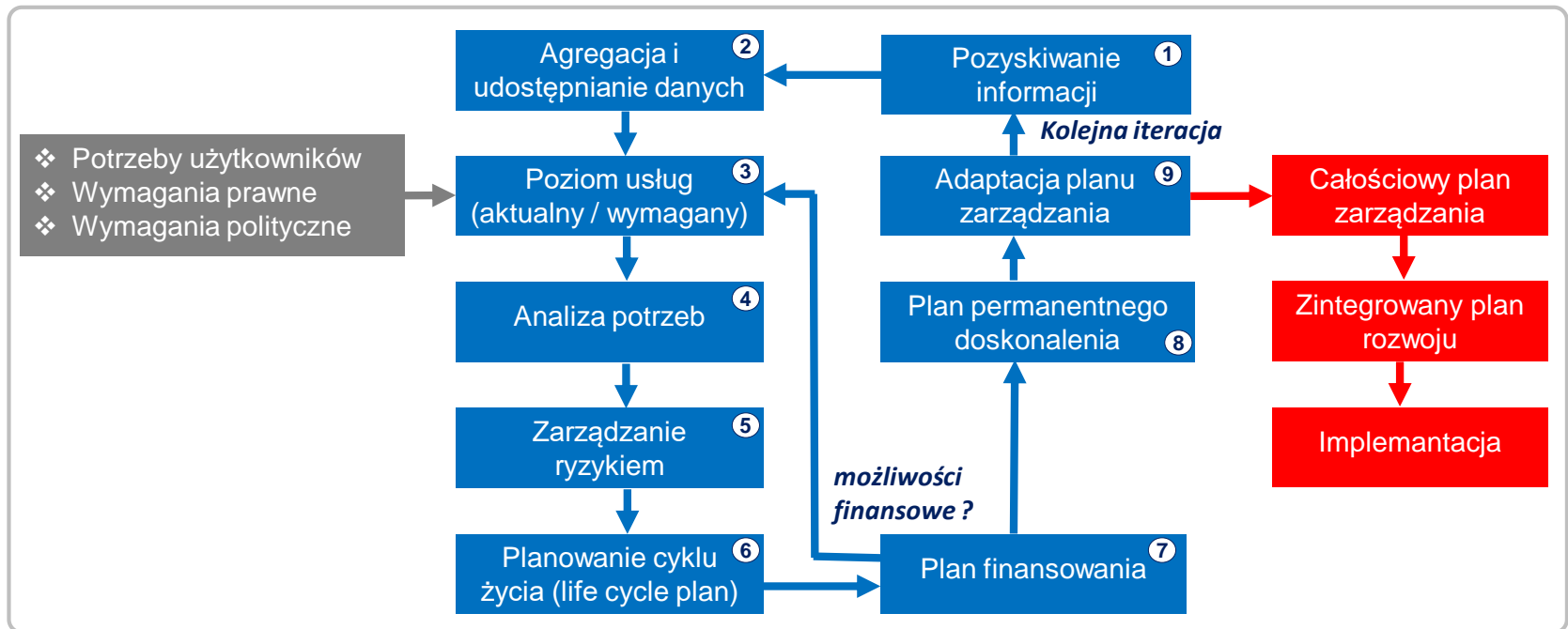
Efektywne zarządzanie infrastrukturą drogową wyzwaniem 21 wieku

- Infrastruktura drogowa w Europie: **8 bilionów Euro**
- Nakłady na utrzymanie **1,0%** rocznie (wymagane **1,5%**)
- Konsekwencje: spadek bezpieczeństwa, wysokie koszty operacyjne pojazdów, **groźba zapaści**

Infrastructure Asset Management czyli Kompleksowe Zarządzanie Infrastruktura

- **Asset Management Strategy**
(zgodnie z ISO 55000)
- **Asset Management Plan**

Infrastructure Asset Management Plan

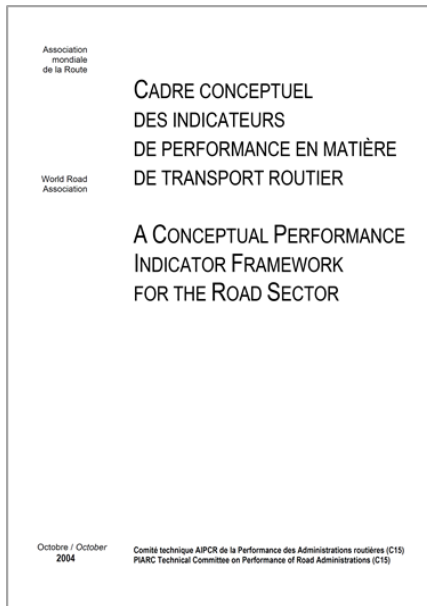


PIARC a Asset Management

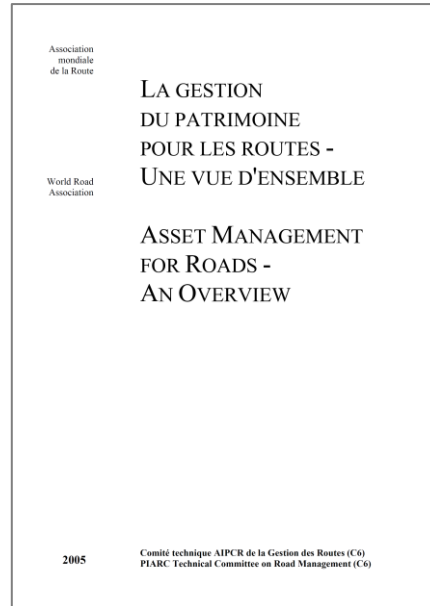
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PIARC a Asset Management



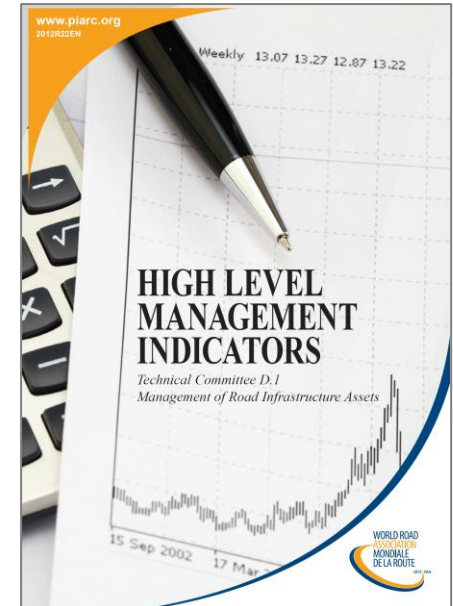
2004



2005



2008



2012

PIARC a Asset Management

Technical Committee D.1
Management of Road Infrastructure

Road Asset Management Guide

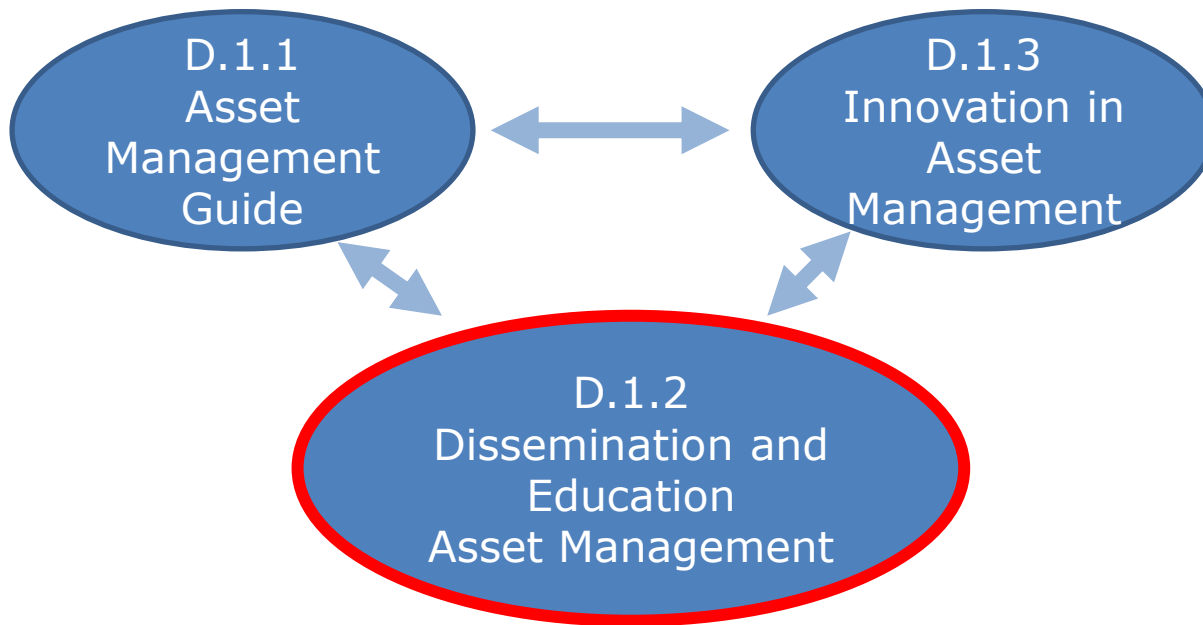
DRAFT

2015

November 2015

Technical Committee D.1 Asset Management

Grupy robocze



Grupa robocza D.1.2

Asset Management Propagowanie i edukacja

Cele:

- Wzmocnienie pozycji Asset Management
- Wzmocnienie pozycji technika i inżyniera drogowego w Asset Management

Formy:

- Publikacje
- Kursy i szkolenia
- Programy kształcenia akademickiego